

(19) World Intellectual Property Organisation
International Bureau



(43) International Publication Date
20 October 2005 (20.10.2005)

PCT

(10) International Publication Number:
WO 2005/097772 A1

- (51) International Patent Classification⁷: **C07D 311/22**,
C08B 37/16, A61K 31/724
- (21) International Application Number: PCT/EP2005/002369
- (22) International Filing Date:
7 March 2005 (07.03.2005)
- (25) Filing Language: German
- (26) Publication Language: German
- (30) Priority Data:
10 2004 016 250.6 2 April 2004 (02.04.2004) DE
- (71) Applicant (for all designated States except US): **MERCK PATENT GMBH** [DE/DE]; Frankfurter Strasse 250, 64293 Darmstadt (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **CAROLA, Christophe** [FR/DE]; Bahnstrasse 80 A, 63225 Langen (DE). **ROSSKOPF, Ralf** [DE/DE]; Trautenauerstrasse 12, 64839 Muenster (DE). **BUCHHOLZ, Herwig** [DE/DE]; Dielmannstrasse 33, 60599 Frankfurt (DE).
- (74) Common Representative: **MERCK PATENT GMBH**; Frankfurter Strasse 250, 64293 Darmstadt (DE).
- (81) Designated states (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated states (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CHROMONE COMPLEXES

(57) Abstract: The invention relates to complexes of certain chromone derivatives, to compositions which comprise such derivatives, to corresponding processes for the preparation of the chromone derivatives or of compositions comprising same, and to the use thereof, in particular for the care, maintenance or improvement of the general state of the skin or hair.